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	CRF Eners corrected by the STIC Syst m	a Branch	2/15/02
N	umb r: 09/463,494A	CRF Processing Date Edited by:	
		Verified by:	(STIC
	Changed the margins in cases where the sequence text was "wrapped"	2 mu -	
	Edited a format error in the Current Application Data section, specifically	ENTE	RED
	Edited the Current Application Data section with the actual current number applicant was the prior application data; or other		nputted by the
	Added the mandatory heading and subheadings for "Current Application	Data".	05Z
	Edited the "Number of Sequences" field. The applicant spelled out a nu	mber instead of us	
-	Changed the spelling of a mandatory field (the headings or subheadings		CENTER
(Corrected the SEQ ID NO when obviously incorrect. The sequence num	nbers that were ed	ited were of
ı	Inserted or corrected a nucleic number at the end of a nucleic line. SEC	Q ID NO's edited:	/2900
	Corrected subheading placement. All responses must be on the same li applicant placed a response below the subheading, this was moved to its		
_	Inserted colons after headings/subheadings. Headings edited included:		
i	Deleted extra, invalid, headings used by an applicant, specifically:		
	Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ sec☐ page numbers throughout text; ☐ other invalid text, such as	cretary initials/filen	ame at end of fi
	Inserted mandatory headings, specifically:		
	Corrected an obvious error in the response, specifically:		
-	Edited identifiers where upper case is used but lower case is required, or	or vice versa.	
	Corrected an error in the Number of Sequences field, specifically:		
	A "Hard Page Break" code was inserted by the applicant. All occurrence	es had to be delete	ed.
	Deleted ending stop codon in amino acid sequences and adjusted the "(•	• • •
	lue to a Patentin bug). Sequences corrected:		
dı	Other:		

*Examin r: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



Improyed

1600

RAW SEQUENCE LISTING DATE: 03/15/2002 PATENT APPLICATION: US/09/463,494A TIME: 10:41:58

```
SEQUENCE LISTING
      1 (1) GENERAL INFORMATION:
             (i) APPLICANT: Reetz, Manfred; Zonta, Albin; Schimossek, Klaus;
      3
                             Liebeton, Klaus; Jager, Karl-Erich
      4
            (ii) TITLE OF INVENTION: A Process for the Preparation and
      5
                                      Identification of Novel Hydrolases Having
      6
                                      Properties
      7
           (iii) NUMBER OF SEQUENCES: 21
      8
            (iv) CORRESPONDENCE ADDRESS:
      9
                  (A) ADDRESSEE: Norris McLaughlin & Marcus
     10
                  (B) STREET: 220 East 42nd Street, 30th Floor
     11
                  (C) CITY: New York
     12
                  (D) STATE: New York
     13
                  (E) COUNTRY: USA
     14
                  (F) ZIP: 10017
     15
             (V) COMPUTER READABLE FORM:
     16
                  (A) MEDIUM TYPE: Floppy disk
     17
                  (B) COMPUTER: IBM PC compatible
     18
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     19
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     20
            (vi) CURRENT APPLICATION DATA:
C--> 21
                  (A) APPLICATION NUMBER: US/09/463,494A
C--> 22
                  (B) FILING DATE: 25-Jul-2000
     23
                  (C) CLASSIFICATION:
     24
           (vii) PRIOR APPLICATION DATA:
     25
                  (A) APPLICATION NUMBER: PCT/EP98/04612
     26
                  (B) FILING DATE: 23-JUL-1998
     27
                  (A) APPLICATION NUMBER: DE 197 31 990.4
     28
                  (B) FILING DATE: 25-JUL-1997
     29
          (viii) ATTORNEY/AGENT INFORMATION:
     30
                  (A) NAME: Briscoe, Kurt G.
     31
                  (B) REGISTRATION NUMBER: 33141
     32
                  (C) REFERENCE/DOCKET NUMBER: STUDIEN 268
     33
            (ix) TELECOMMUNICATION INFORMATION:
     34
                  (A) TELEPHONE: (212) 808-0700
     35
                  (B) TELEFAX: (212) 808-0844
     36 (2) INFORMATION FOR SEQ ID NO: 1:
     37
             (i) SEQUENCE CHARACTERISTICS:
     38
                  (A) LENGTH: 30 base pairs
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                  (B) TYPE: nucleic acid
     40
                  (C) STRANDEDNESS: unknown
     41
                  (D) TOPOLOGY: linear
     42
            (ii) MOLECULE TYPE: other nucleic acid
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52																	
53	(ii) MOL	•					clei	e ac	id							
54		(A) DE	SCRII	PTIO	N: /0	desc	= " :	syntl	netio	C DNA	Α"					
55	(xi) SEQ	UENC	E DES	SCRI	PTIO	N: S	EQ II	ои с	: 2:							
56		GTAAT															27
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64 65) MOL			PE: I	JNA	(gene	JIII LC	,								
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71	(xi) SEQ	•					EQ II	ои с	: 3:							
72		-									GCTG	GCA	GGAC	GCG (caca:	rcggcc	60
73	CC	ATCAA	CCT (GAGA:	TGAG	AA C	AAC A	ATG A	AAG A	AAG A	AAG :	rat (CTG (CTC (CCC (CTC	111
74							I	Met 1	Lys 1	Lys 1	Lys :	ryr I	Leu 1	Leu 1	Pro 1	Leu	
75								-26						-20			
76		C CTG															159
77	G]	y Leu		Ile	Gly	Leu	Ala		Leu	Ala	Ala	Ser		Leu	Ile	Gln	
78			-15					-10				~~~	- 5			~~~	0.07
79		C AGC															207
80 81	AJ	a Ser 1		TYL	THE	5	THE	гλг	TYL	Pro	10	val	Leu	Ата	HIS	15	
82	ת מ	G CTC		ጥ ጥር	GAC		አጥሮ	СТС	GGG	GTC		ጥልሮ	TGG	ጥጥረ	GGC		255
83		t Leu															233
84	110	c neu	OLY	1110	20	71511	110	Dea	011	25	пор	* J *	112	1110	30	110	
85	CC	C AGC	GCC	TTG		CGT	GAC	GGT	GCC		GTC	TAC	GTC	ACC		GTC	303
86		o Ser															
87				. 35	-	_	•	-	40			-		45			
88	AG	C CAG	TTG	GAC	ACC	TCG	GAA	GTC	CGC	GGC	GAG	CAG	TTG	CTG	CAA	CAG	351
0.0	9.0	r Gln	T OIL	Asn	Thr	Ser	Glu	Val	Arg	Gly	Glu	Gln	Leu	Leu	Gln	Gln	
89	36	_ 01.	Leu	1105													
90			50	_				55					60				
90 91	GI	G GAG	50 GAA	ATC	GTC			AGC					GTC				399
90	GI		50 GAA Glu	ATC	GTC			AGC					GTC				399

Section Sect	94 95	GGC CAC															447
97		_	5 501	1115	O _T y .		110	1111	110	nry		Tur	niu	21.I.u	141 1		
98			CTG	ATC (GCT		GCC	ATC	AGC	GTC		GCC	CCG	CAC	AAG (495
100																	133
TOG GAC ACC GCC GAC TTC CTG CGC CAG ATC CCA CCG GGT TCG GCC GGC 101 Ser Asp Thr Ala Asp Phe Leu Arg Gln Ile Pro Pro Gly Ser Ala Gly 125 120 125 125 120 125 125 120 125 125 120 125 125 120 125 125 120 125 125 125 120 125 125 125 125 125 125 125 125 125 125		110 1101	Lou								011					1	
101		TCG GA	AC ACC			TTC	CTG	CGC	CAG		CCA	CCG	GGT			GGC	543
102																	
GAG GCA GTC CTC TCC GGG CTG GTC AAC AGC CTC GGC GCG CTG ATC AGC 591						•		5					2			1	
104 Glu Ala Val Leu Ser Gly Leu Val Asn Ser Leu Gly Ala Leu Ile Ser		GAG GO	CA GTO		TCC	GGG	CTG	GTC			CTC	GGC	GCG	CTG	ATC	AGC	591
105																	
106						•						•					
108	106	TTC C	T TCC	AGC	GGC	GGC	ACC	GGT	ACG	CAG	AAT	TCA	CTG	GGC	TCG	CTG	639
108	107	Phe Le	eu Ser	Ser	Gly	Gly	Thr	Gly	Thr	Gln	Asn	Ser	Leu	Gly	Ser	Leu	
110	108	14	15		_	_	150	_				155		_			
111	109	GAG TO	CG CTG	AAC	AGC	GAG	GGT	GCC	GCG	CGC	TTC	AAC	GCC	AAG	TAC	CCG	687
CAG GGC ATC CCC ACC TCG GCC TGC GGC GAA GGC GCC TAC AAG GTC AAC 735	110	Glu Se	er Leu	Asn	Ser	Glu	Gly	Ala	Ala	Arg	Phe	Asn	Ala	Lys	Tyr	Pro	
113 Gln Gly Ile Pro Thr Ser Ala Cys Gly Glu Gly Ala Tyr Lys Val Asn 114 180 185 190 185 190 185 190 185 190 185 190 185 190 185 190 185 190 185 190 185 190 185 185 190 185 185 190 185 185 190 185 185 190 185 185 190 185 185 185 190 185	111	160				165					170	ı				175	
114 180 185 185 190 170	112	CAG GO	C ATC	CCC	ACC	TCG	GCC	TGC	GGC	GAA	GGC	GCC	TAC	AAG	GTC	AAC	735
115	113	Gln Gl	ly Ile	Pro	Thr	Ser	Ala	Cys	Gly	Glu	Gly	Ala	Tyr	Lys	Val	Asn	
116	114				180					185					190		
117	115	GGC GT	rg Ago	TAT	TAC	TCC	TGG	AGC	GGT	TCC	TCG	CCG	CTG	ACC	AAC	TTC	783
118	116	Gly Va	al Ser	Tyr	Tyr	Ser	Trp	Ser	Gly	Ser	Ser	Pro	Leu	Thr	Asn	Phe	
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121		Leu As	-		Asp	Ala	Phe		_	Ala	Ser	Ser			Phe	Lys	
Asn Gly Thr Ala Asn Asp Gly Leu Val Gly Thr Cys Ser Ser His Leu 123																	
123																	879
124 GGC ATG GTG ATC CGC GAC AAC TAC CGG ATG AAC CAC CTG GAC GAG GTG 927			-	Ala	Asn	Asp	-	Leu	Val	GLY	Thr	-	Ser	Ser	His	Leu	
125									~~~				ama	a. a	010	a	007
126																	927
AAC CAG GTC TTC GGC CTC ACC AGC CTG TTC GAG ACC AGC CCG GTC AGC ASN Gln Val Phe Gly Leu Thr Ser Leu Phe Glu Thr Ser Pro Val Ser 260 265 270 300 GTC TAC CGC CAG CAC GCC AAC CGC CTG AAG AAC GCC AGC CTG 131 Val Tyr Arg Gln His Ala Asn Arg Leu Lys Asn Ala Ser Leu 132 275 280 285 133 TAGGACCCCG GCCGGGCCT CGGCCCGGGC CC 285 135 (2) INFORMATION FOR SEQ ID NO: 4: 136 (i) SEQUENCE CHARACTERISTICS: 137 (A) LENGTH: 311 amino acids 138 (B) TYPE: amino acid 139 (D) TOPOLOGY: linear 140 (ii) MOLECULE TYPE: protein 141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 142 Met Lys Lys Lys Tyr Leu Leu Pro Leu Gly Leu Ala Ile Gly Leu Ala		_	et var	ııe	Arg	_	ASI	туг	Arg	мет			Leu	ASP	GIU		
Asn Gln Val Phe Gly Leu Thr Ser Leu Phe Glu Thr Ser Pro Val Ser 129			o ama		000		3.00	3.00	ama	. mmc			3.00	000	CmC		075
129 260 265 270 130 GTC TAC CGC CAG CAC GCC AAC CGC CTG AAG AAC GCC AGC CTG 1017 131 Val Tyr Arg Gln His Ala Asn Arg Leu Lys Asn Ala Ser Leu 132 275 280 285 133 TAGGACCCCG GCCGGGGCCT CGGCCCGGGC CC 1049 135 (2) INFORMATION FOR SEQ ID NO: 4: 136 (i) SEQUENCE CHARACTERISTICS: 137 (A) LENGTH: 311 amino acids 138 (B) TYPE: amino acid 139 (D) TOPOLOGY: linear 140 (ii) MOLECULE TYPE: protein 141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 142 Met Lys Lys Lys Tyr Leu Leu Pro Leu Gly Leu Ala Ile Gly Leu Ala																	9/3
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Val Tyr Arg Gln His Ala Asn Arg Leu Lys Asn Ala Ser Leu 132 275 280 285 133 TAGGACCCCG GCCGGGGCCT CGGCCCGGGC CC 1049 135 (2) INFORMATION FOR SEQ ID NO: 4: 136 (i) SEQUENCE CHARACTERISTICS: 137 (A) LENGTH: 311 amino acids 138 (B) TYPE: amino acid 139 (D) TOPOLOGY: linear 140 (ii) MOLECULE TYPE: protein 141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 142 Met Lys Lys Lys Tyr Leu Leu Pro Leu Gly Leu Ala Ile Gly Leu Ala		ርጥር ጥን	ער רפר	CAC		GCC	<u>አአሮ</u>	CCC	ርጥር			י פככ	N.C.C	ርጥር	210		1017
132 275 280 285 133 TAGGACCCCG GCCGGGGCCT CGGCCCGGC CC 1049 135 (2) INFORMATION FOR SEQ ID NO: 4: 136 (i) SEQUENCE CHARACTERISTICS: 137 (A) LENGTH: 311 amino acids 138 (B) TYPE: amino acid 139 (D) TOPOLOGY: linear 140 (ii) MOLECULE TYPE: protein 141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 142 Met Lys Lys Lys Tyr Leu Leu Pro Leu Gly Leu Ala Ile Gly Leu Ala																	1017
TAGGACCCCG GCCGGGGCCT CGGCCCGGGC CC 135 (2) INFORMATION FOR SEQ ID NO: 4: 136 (i) SEQUENCE CHARACTERISTICS: 137 (A) LENGTH: 311 amino acids 138 (B) TYPE: amino acid 139 (D) TOPOLOGY: linear 140 (ii) MOLECULE TYPE: protein 141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 142 Met Lys Lys Lys Tyr Leu Leu Pro Leu Gly Leu Ala Ile Gly Leu Ala		var 13	'I WIA		1113	AIG	non	пта		_	LSI	. AIu	Der				
135 (2) INFORMATION FOR SEQ ID NO: 4: 136 (i) SEQUENCE CHARACTERISTICS: 137 (A) LENGTH: 311 amino acids 138 (B) TYPE: amino acid 139 (D) TOPOLOGY: linear 140 (ii) MOLECULE TYPE: protein 141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 142 Met Lys Lys Lys Tyr Leu Leu Pro Leu Gly Leu Ala Ile Gly Leu Ala		ТАССАС	CCCG		GGGC	ርጥ ር	GGCC	CGGG						203			1049
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: Met Lys Lys Lys Tyr Leu Leu Pro Leu Gly Leu Ala Ile Gly Leu Ala																	2015
(A) LENGTH: 311 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: Met Lys Lys Lys Tyr Leu Leu Pro Leu Gly Leu Ala Ile Gly Leu Ala																	
138 (B) TYPE: amino acid 139 (D) TOPOLOGY: linear 140 (ii) MOLECULE TYPE: protein 141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 142 Met Lys Lys Lys Tyr Leu Leu Pro Leu Gly Leu Ala Ile Gly Leu Ala									s								
139 (D) TOPOLOGY: linear 140 (ii) MOLECULE TYPE: protein 141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 142 Met Lys Lys Lys Tyr Leu Leu Pro Leu Gly Leu Ala Ile Gly Leu Ala																	
(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: Met Lys Lys Lys Tyr Leu Leu Pro Leu Gly Leu Ala Ile Gly Leu Ala																	
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	142											Ala	Ile	Gly	Leu	Ala	
	143				-												

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              (D) TOPOLOGY: unknown
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189
        (ii) MOLECULE TYPE: DNA (genomic)
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        (ix) FEATURE:
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              (A) NAME/KEY: CDS
192
              (B) LOCATION: 85..1017
193
        (ix) FEATURE:
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194 195	. , , , , , , , , , , , , , , , , , , ,																
196	· ·																
197											GCTG	GCA	GGAC	GCG (CCCC:	rcggcc	60
198								ATG A									111
199							Ī	Met 1	Lys I	Lys 1	Lys (ser 1	Leu 1	Leu 1	Pro 1	Leu	
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211	Pro	Ser	Ala	Leu	Arg	Arg	Asp	Gly	Ala	Gln	Val	Tyr	Val	Thr	Glu	Val	
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214	Ser	Gln	Leu	Asp	Thr	Ser	Glu	Val	Arg	Gly	Glu	Gln	Leu	Leu	Gln	Gln	
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216	GTG	GAG	GAA	ATC	GTC	GCC	CTC	AGC	GGC	CAG	CCC	AAG	GTC	AAC	CTG	ATC	399
217	Val	Glu	Glu	Ile	Val	Ala	Leu	Ser	Gly	Gln	Pro	Lys	Val	Asn	Leu	Ile	
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220	Gly	His	Ser	His	Gly	Gly	Pro	Thr	Ile	Arg	Tyr	Val	Ala	Ala	Val	Arg	
221	80					85					90					95	
222	CCC	GAC	CTG	ATC	GCT	TCC	GCC	ACC	AGC	GTC	GGC	GCC	CCG	CAC	AAG	GGT	495
223	Pro	Asp	Leu	Ile	Ala	Ser	Ala	Thr	Ser	Val	Gly	Ala	Pro	His	Lys	Gly	
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231								GGT									639
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233		145					150					155					
234								GCC									687
235		Ser	Leu	Asn	Ser		Gly	Ala	Ala	Arg		Asn	Ala	Lys	${ t Tyr}$		
236	160					165					170					175	
237								TGC									735
238	Gln	Gly	Ile	Pro		Ser	Ala	Cys	Gly		Gly	Ala	\mathtt{Tyr}	Lys		Asn	
239					180					185					190		
240								AGC									783
241	Gly	Val	Ser		Tyr	Ser	Trp	Ser		Ser	Ser	Pro	Leu		Asn	Phe	
242				195					200					205			

VERIFICATION SUMMARY

DATE: 03/15/2002 TIME: 10:41:59 PATENT APPLICATION: US/09/463,494A

Input Set : N:\Crf3\03072002\I463494A.raw Output Set: N:\CRF3\03152002\1463494A.raw

L:21 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:22 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]